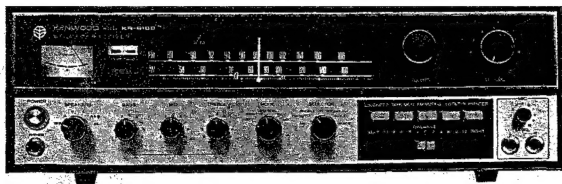


Original  
**KENWOOD**  
HI/FI STEREO COMPONENTS

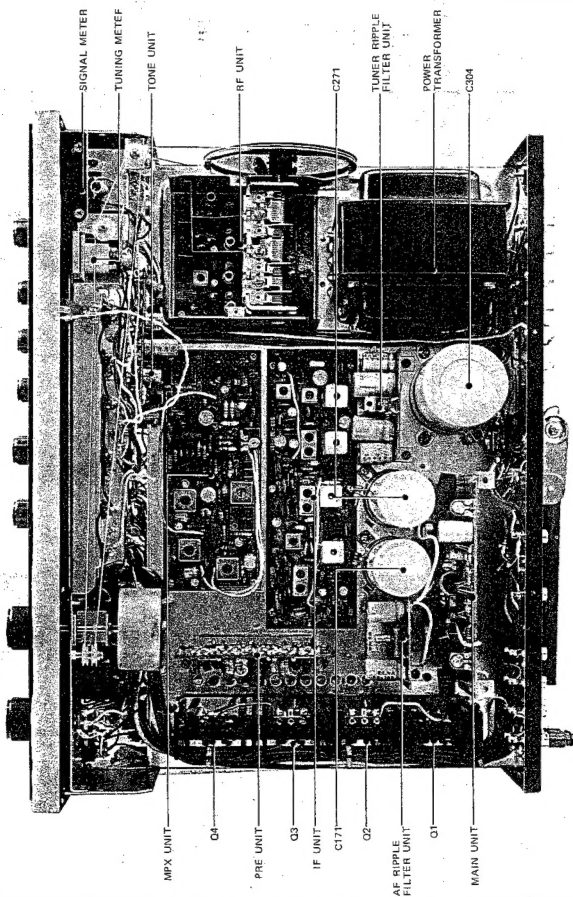
# SERVICE MANUAL

## KR-6160

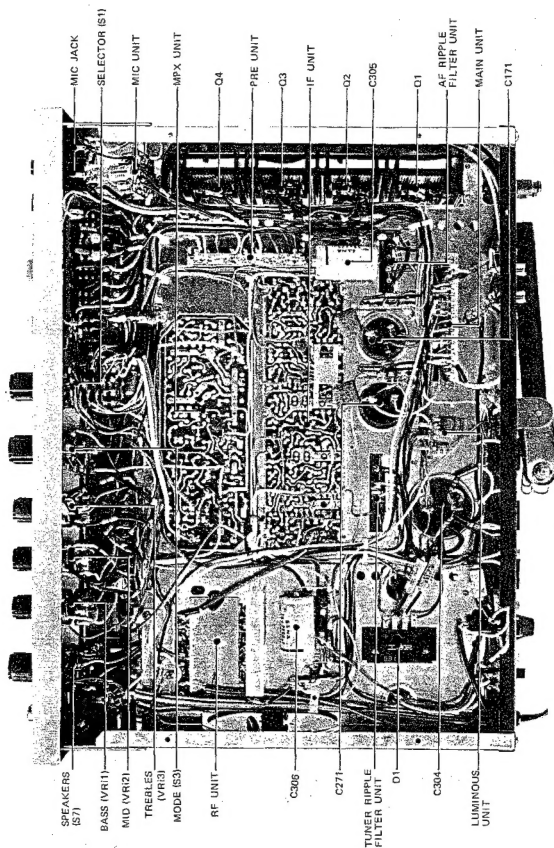


SOLID STATE  
AM-FM STEREO RECEIVER

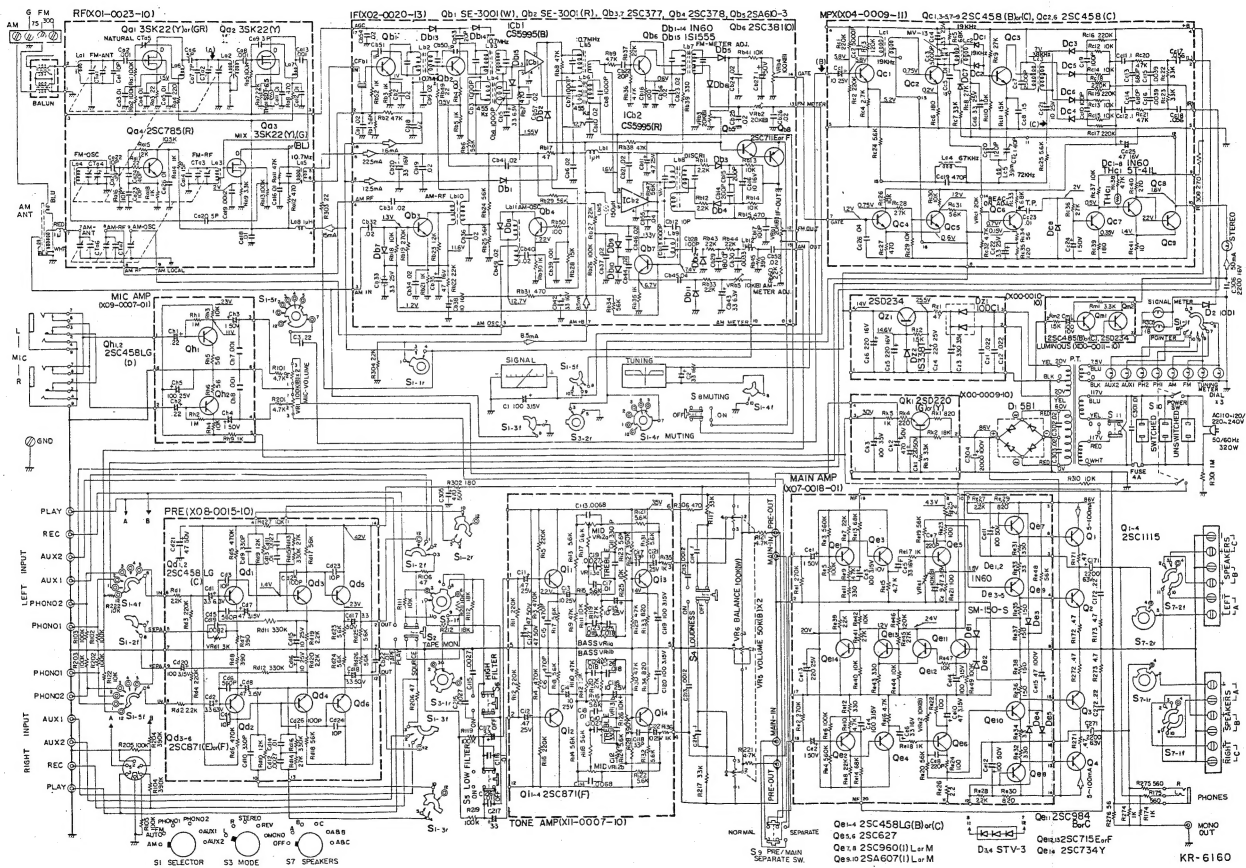
# ● TOP CHASSIS VIEW



# ● BOTTOM CHASSIS VIEW



## ● SCHEMATIC DIAGRAM

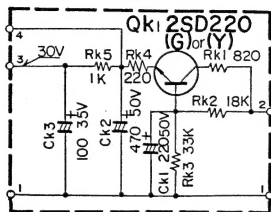




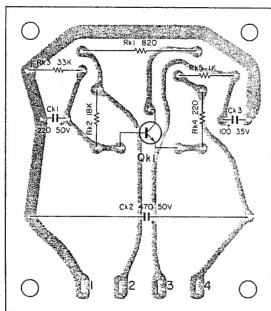
## SCHEMATIC DIAGRAM

## BOTTOM VIEW OF TRANSISTORS

2SD220



## SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qk1 2SD220

## ● ALIGNMENT PROCEDURE

### AM ALIGNMENT PROCEDURE

Alignment tools: IF transformers require a plastic screwdriver-type alignment tool.  
Instruments: AM SG, AC VTVM & Oscilloscope.  
Selector SW: Always place in AM position.  
Warm-up: Allow 30 minutes warm-up period for Receiver and equipments.

STEP	Dummy Antenna	AM Signal Generator Coupling	Signal Generator Frequency	Selector Switch	Tuning Dial Setting	Indicating Meter	Adjust	Remarks
1	Direct	High side to AM antenna terminal, Low side to chassis	455kHz (400Hz 30% AM)	AM	Any non-interfering setting	Tuning Indicator	(X02-0020-13) Lb4, 6, 9	Maximum Deflection
2	Direct	Connect to short loop of wire, Radiate signal into ferrite loop stick antenna of receiver	600kHz (400Hz 30% AM)	AM	600kHz	Tuning Indicator	(X02-0020-13) Lb11 AM ANT.	Maximum Deflection
3	Direct	Connect to short loop of wire, Radiate signal into ferrite loop stick antenna of receiver	1400kHz (400Hz 30% AM)	AM	1400kHz	Tuning Indicator	(X01-0023-10) CTa5~6	Maximum Deflection
4	Repeat steps 2 & 3 until no further improvement is possible							

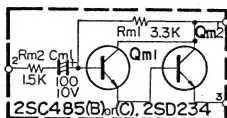
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

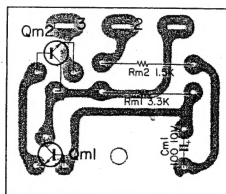
2SC458



2SD234



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



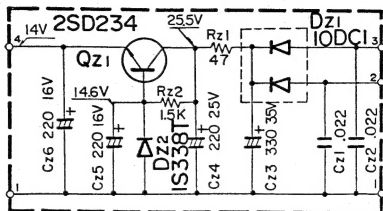
Qm1 2SC458 (B) or (C)

Qm2 2SD234 (O) or (Y)

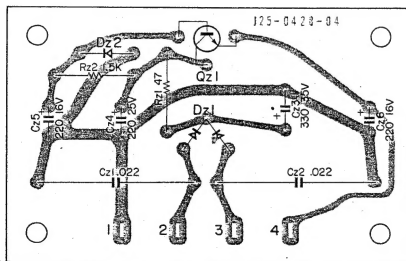
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

2SD234



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qz1 2SD234 DZ1 10DC1 DZ2 1S338T



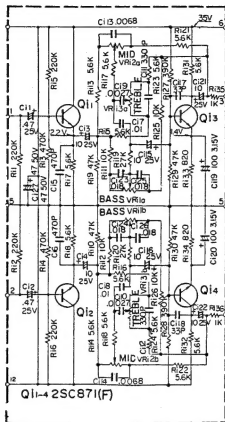
# KENWOOD TONE AMP (X11-0007-10) SECTION

(KR-6160)

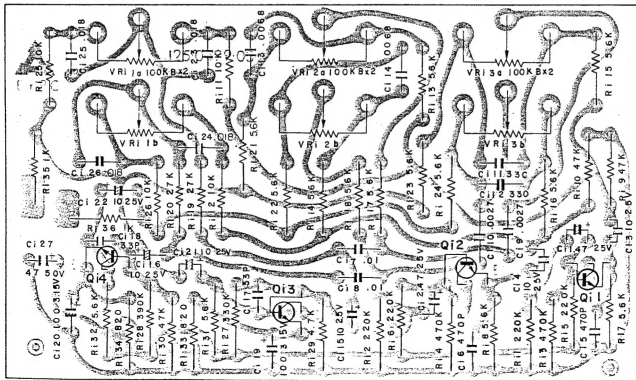
## SCHEMATIC DIAGRAM

### BOTTOM VIEW OF TRANSISTORS

2SC871



### SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



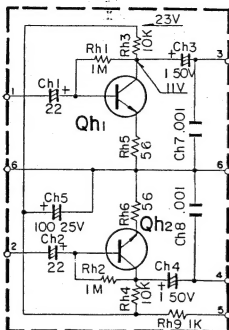
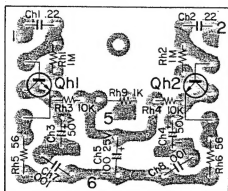
Q1 ~ 4 2SC871 (F)

**KENWOOD****MIC AMP (X09-0007-01) SECTION**

(KR-6160)

**SCHEMATIC DIAGRAM****BOTTOM VIEW OF TRANSISTORS**

2SC458LG

**SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS**

Qh1, 2 2SC458LG (D)

# KENWOOD MAIN AMP (X07-0018-10) SECTION

(KR-6160)

## SCHEMATIC DIAGRAM

### BOTTOM VIEW OF TRANSISTORS

2SA607  
2SC627  
2SC960



2SC458

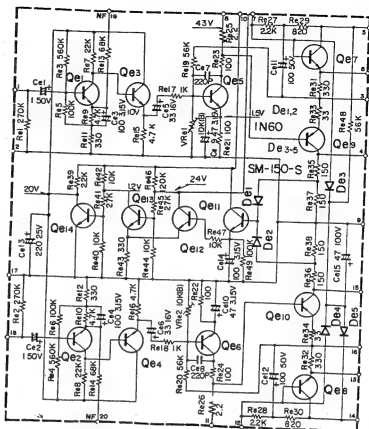


2SC373  
2SC374

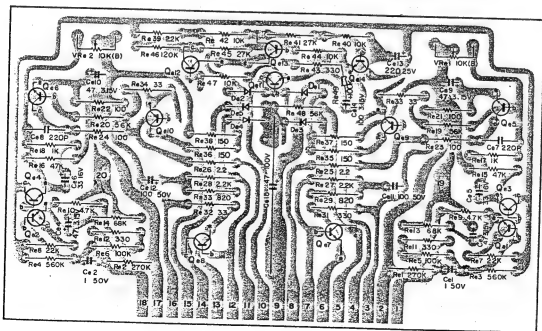


2SC984

2SC715



## SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qe1 ~ 4 2SC458(L) (E) or (F) Qe5, 6 2SC627 Qe7, 8 2SC960 (I) L or M Qe9, 10 2SA607 (I) L or M  
Qe11 2SC984 (B) or (C) Qe12, 13 2SC715 (E) or (F) Qe14 2SC734 (Y) De1, 2 1N60  
De3 ~ 5 SM-150-S



KENWOOD

## PRE AMP (X08-0015-10) SECTION

(KR-6160)

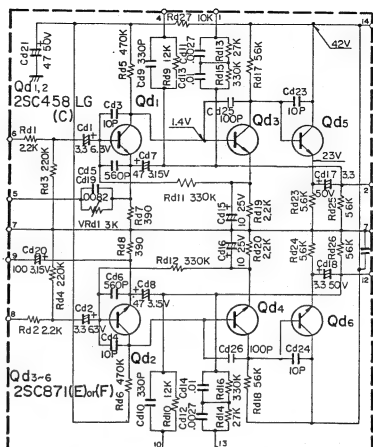
## SCHEMATIC DIAGRAM

## BOTTOM VIEW OF TRANSISTORS

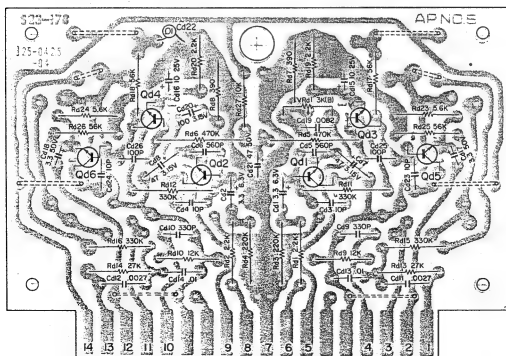
2SC458



2SC871



## SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qd1, 2 2SC458LG (C) Qd3~6 2SC871 (E) or (F)



# IF (X02-0020-13) SECTION

(KR-6160) (KR-5150)

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS



2SC377  
2SC351  
2SC378



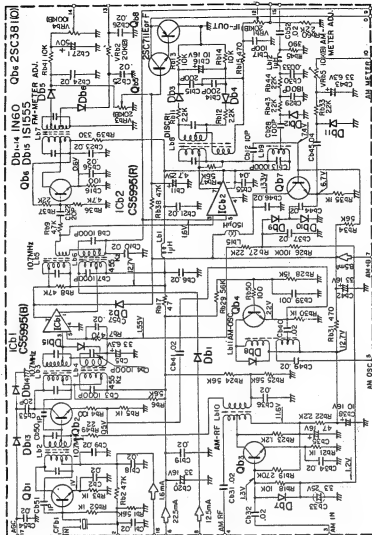
2SA610



CS5995

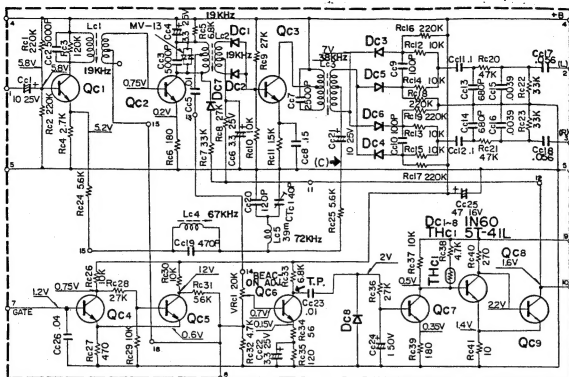


2SC711

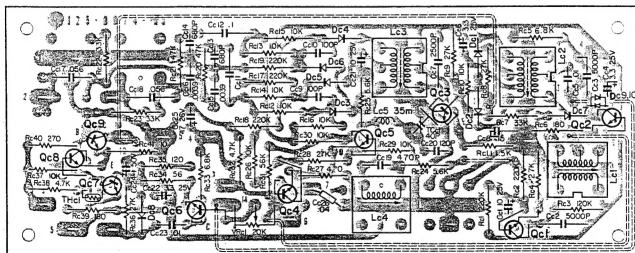


Qb1 SE-3001 (W). Qb2 SE-3001 (R). Qb3 2SC377. Qb4 2SC378. Qb5 2SA610-3. Qb6 2SC381 (O).

**SCHEMATIC DIAGRAM**



**SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS**



Qc1, 3 ~ 5, 7 ~ 9 2SC458 (B) or (C) Qc2, 6 2SC458 (C) Dc1 ~ 8 1N60 Dc9, 10 MV-13 Tc1 5T-41L-MV-13

**BOTTOM VIEW OF TRANSISTORS**

2SC458



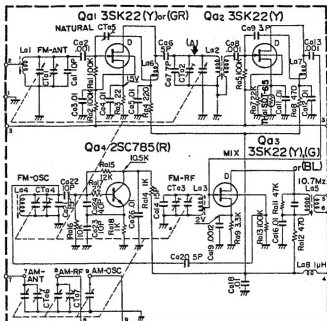
### SCHEMATIC DIAGRAM

#### BOTTOM VIEW OF TRANSISTORS

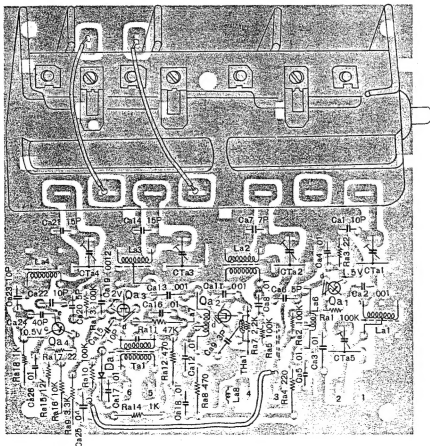
3SK22 (Y)



2SC785



### SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qa1 3SK 22 (Y) or (G), Qa3 3SK22 (Y) (BL) or (G)  
 THa1 SDT-65 Qa2 3SK 22 (Y) (R) or (G), Qa4 2SC785 Da1 1N60



## ● DIAL CORD STRINGING

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